Imagination and GLOBALFOUNDRIES Collaborate to Deliver Ultra-Low-Power Connectivity Solutions for IoT Applications

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Imagination brings Ensigma Ultra-Low-Power Connectivity IP to GLOBALFOUNDRIES' 22FDX® process

London, UK and Santa Clara, USA – September 25, 2018 – Imagination Technologies and GLOBALFOUNDRIES (GF) announced today at its annual GTC 2018 conference, a joint collaboration to provide ultra-low-power baseband and radio frequency (RF) solutions for Bluetooth Low Energy® (BLE) and IEEE 802.15.4 technology, using Imagination's Ensigma connectivity IP on GF's 22nm FD-SOI (22FDX®) platform. In addition, Imagination has joined GF's FDXcelerator™ Partner Program.

The combination of 22FDX technology and Imagination's Ensigma IP provides a power and cost efficient solution that customers can easily integrate into their System on Chip (SoC) designs. The collaboration will enable mutual customers to create innovative and differentiated connected devices for the Internet of Things (IoT) using Imagination's silicon-proven, ultra-low power Ensigma connectivity engines in GF's ultra-efficient 22FDX process.

David McBrien, executive vice president of sales and marketing, Imagination, says: "By working with partners such as GF, we continuously enhance our IP for the latest processes. 22FDX is an appealing option for customers designing cost-sensitive devices. The collaboration has made our Ensigma connectivity IP even more power and area efficient. The availability of silicon-proven baseband and RF enables customers to rapidly introduce single-chip wireless devices requiring only a single external antenna."

"Imagination's IP and BLE solutions complement GF's 22FDX FD-SOI capabilities, enabling clients to leverage low-power, low-cost designs for IoT and connected applications," said Mark Ireland, vice president of ecosystem partnerships at GF. "We are pleased to welcome Imagination as a partner in our FDXcelerator program to further broaden IP and design service choices and flexibility that will best match client requirements."

Ensigma IP for 22FDX provides a complete IP solution comprising analogue RF/AFE as a hard macro complete with a fully synthesizable baseband IP for applications such as wearable computing, health care, and home control. The solution for ultra-low power Bluetooth Low Energy and IEEE 802.15.4 is currently in development with lead customers, with silicon available in early Q4 2018.

As a part of GF's FDXcelerator Program, Imagination will join the rapidly-growing number of industry leaders committed to provide a broad set of resources, including EDA tools, IP, silicon platforms, reference designs, design services and packaging and test solutions specific to 22FDX technology. The program's open framework enables members to minimize development time and cost while simultaneously leveraging the inherent power and performance advantages of FDX technology.

The Ensigma Bluetooth Low Energy / IEEE 802.15.4 baseband and RF IP is available for immediate licensing. For sales and licensing information, contact info@imgtec.com.

About GF

GLOBALFOUNDRIES (GF) is a leading full-service foundry delivering truly differentiated semiconductor technologies for a range of high-growth markets. GF provides a unique combination of design, development, and fabrication services, with a range of innovative IP and feature-rich offerings including FinFET, FDX™, RF, and power/analog mixed signal. With a manufacturing footprint spanning three continents, GF has the flexibility and agility to meet the dynamic needs of clients across the globe. GF is owned by Mubadala Investment Company. For more information, visit globalfoundries.com.

About Imagination Technologies

Imagination is a global technology leader whose products touch the lives of billions of people across the globe. The company's broad range of silicon IP (intellectual property) includes the key processing blocks needed to create the SoCs (Systems on Chips) that power all mobile, consumer and embedded electronics. Its unique software IP, infrastructure technologies and system solutions enable its customers to get to market quickly with complete and highly differentiated SoC platforms. Imagination's licensees include many of the world's leading semiconductor manufacturers, network operators and OEMs/ODMs who are creating some of the world's most iconic products. See: www.imgtec.com.

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